

In an imaging method and apparatus for generating an enhanced optical image of a scene, input optical image signals are generated by sensing an optical image input of the scene at a single exposure, the optical image input having a wide input dynamic range with a plurality of dynamic range portions. The input optical image signals are subsequently processed to obtain a plurality of optical image data during the single exposure, wherein the optical image data have dynamic ranges that correspond respectively to the dynamic range portions. Thereafter, the optical image data are combined to result in optical image output data corresponding to the enhanced optical image of the scene.

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